
PETROG v2 Database Installation Instructions (inc. Windows 7)

PETROG utilises the Borland Database Engine (BDE) to interface with the database. The BDE must be installed and configured. The BDE can be installed using the setup in

`BDE_Installation.zip`

Running this setup should also configure the BDE, including adding an alias for PETROG. In case it does not completely install, i.e. you see error messages such as

Private directory is invalid or undefined. Using temporary directory instead.

and/or:

Could not initialize BDE

first check that there is a directory

`C:\Program Files (x86)\Common Files\Borland Shared\BDE\`

If you are running 64-bit Windows 7, or

`C:\Program Files\Common Files\Borland Shared\BDE\`

otherwise.

If not, then the files have not properly extracted during the installation. See Troubleshooting for possible causes and workarounds. If the relevant directory is present, then run `bdeadmin.exe` from that directory.

Because of Windows 7's User Account Control (UAC) feature, which restricts what even administrator-level users can do unless they give explicit consent, you may need to "elevate" access for the installer in order to grant it full system access. Just right click the icon or activate `bdeadmin.exe` and select 'Run as Administrator'. The BDE programs have not been updated to trigger the standard UAC prompt ('Do you want to allow the following program to make changes to this computer?'), so you will need to use the 'Run as Administrator' option.

If these steps needed to be performed manually, then it is likely that the configuration will also need to be undertaken manually; see below.

Configuring BDE/Paradox

PETROG assumes that the BDE has been given an alias, named "PETROG", which points to the location of the database tables. Once the `bdeadmin` program has been installed it can be used to set this alias; it may be necessary to 'elevate access', as described previously.

The BDE Administrator stores its results in the file `IDAPI32.CFG`. Ensure you have write access to this file before making modifications. Note that this file is accessed on start-up of applications, so if changes are made then PETROG needs to be restarted, but it is not necessary to restart Windows.

BDE will rebuild the file `IDAPI32.CFG` if it is not present. Therefore, if you suspect that it is corrupt, try deleting it. If it does not recreate, this could be due to a folder not existing, or lack of write permission.

To ensure that the database is accessible to PETROG, the following items should be set using the BDE Administrator:

- (1) There should be a PETROG alias; i.e. the name "PETROG" should be in the list under the **Databases** tab in the left panel. If the "PETROG" alias does not exist then it should be created using menu

Object | New

Choose STANDARD as the default database driver name, and the database should be called "PETROG". Ensure changes are applied (menu Object | Apply if an existing configuration) or saved (menu Object | Save As for a new configuration).

- (2) For a new alias, set the path to the location of the PETROG database e.g.:

C:\PetrogData\PetrogDB

For an existing alias, check that the path is set correctly. Ensure changes are applied or saved. If you try to make a change and see the message:

Cannot Modify

then you should close the database and re-try. Close the database by selecting the name "PETROG" in the **Databases** list and choosing **Close** on the RMB (Right Mouse Button) menu.

Configuring BDE/Paradox for multi-user PETROG

To use PETROG in a multi-user mode the user must configure their database setup using the BDE Administrator software. This can be found in the Windows Control Panel, or directly using Windows Explorer, in the Program Files directory, e.g.:

C:\Program Files\Common Files\Borland Shared\BDE\bdeadmin.exe

The BDE Administrator stores its results in the file IDAPI32.CFG. Ensure that the user has write access to this file if they need to make modifications. Each user can have their own IDAPI32.CFG

file if necessary. Note that this file is accessed on start-up of applications, so if changes are made then PETROG needs to be restarted, but it is not necessary to restart Windows.

BDE will rebuild the file IDAPI32.CFG if it is not present. Therefore, if you suspect that it is corrupt, try deleting it. If it does not recreate, this could be due to a folder not existing, or lack of write permission.

To ensure that the database is accessible to all users, the following items should be set using the BDE Administrator:

- (1) There should be a PETROG alias; i.e. the name "PETROG" should be in the list under the **Databases** tab in the left panel. If the "PETROG" alias does not exist then it should be created using menu

Object | New

Choose STANDARD as the default database driver name, and the database should be called "PETROG". Ensure changes are applied (menu Object | Apply if an existing configuration) or saved (menu Object | Save As for a new configuration).

- (2) For a new alias, set the path to the location of the PETROG database e.g.:

C:\PetrogData\PetrogDB

For an existing alias, check that the path is set correctly. Ensure changes are applied or saved. If you try to make a change and see the message:

Cannot Modify

then you should close the database and re-try. Close the database by selecting the name "PETROG" in the **Databases** list and choosing **Close** on the RMB (Right Mouse Button) menu.

- (3) Under the **Configuration** tab on the left panel, check that the Paradox configuration has the correct setting for **NET DIR**.

This should be a path to a folder where the PDOXUSRS.NET file is located. This should be the same location for all users. If the users have different locations then they will not be coordinated correctly. PDOXUSRS.NET does not need to exist, and will be created if it doesn't exist on the first use of an application. The ideal choice for the location of this file is the same folder as the database, as all users will need to be able to access that folder. If the file already exists, ensure the user has write access. Ensure changes are applied or saved.

- (4) Again under the Configuration tab, expand the tree such that the path

Configuration | System | INIT

is visible, and click on **INIT** to highlight it. Then check that the parameter **LOCAL SHARE** on the right-hand side panel is set to True.

Troubleshooting

1. Administrator Privileges

It is possible that, after completing the installation, you are only able to run PETROG using the Windows log-in that was in use when the software was installed.

If an error message is displayed when running PETROG via a different Windows log-in, indicating that there are database problems, such as

```
CQuanComp Create failed: Network initialization failed.  
File or directory does not exist.  
File: C:\PDOXUSRS.NET  
Permission denied.  
Directory: C:\
```

then it is necessary to adjust the properties of the C:\PetrogData folder.

Right-click on the PetrogData folder in Windows Explorer, and select **Properties**. The window that appears should have a **Security** tab available for selection.

If it does not, then go to Control Panel | Folder Options, click the **View** tab, and then click to clear the **Use simple file sharing [Recommended]** check box in the **Advanced Settings** box.

From the **Security** tab, select Group and/or user names from the list at the top of the tab as appropriate, and for each of these selections tick the box in the **Allow** column for the **Full Control** row. Once finished, click **Apply** to apply the settings, and then **OK** to close the **Properties** window.

If you are installing PETROG under Windows Vista or 7, there may be further problems caused by folder permissions introduced by these operating systems. If an error message as above (or similar) is displayed, then please carry out the following steps to resolve this problem:

- (1) Check that the NET DIR setting is correct, following the instructions in the above section on 'Configuring BDE/Paradox for multi-user PETROG' (step (3)).
- (2) If the problem still persists, then it is necessary to move the entire PETROG database to a folder with the required permissions. This should be done by copying the folder

C:\PetrogData

to a location such as

C:\Users\YourName\PetrogData.

Once this is done, then it is necessary to run `bdeadmin.exe`, as described in the above section on 'Configuring BDE/Paradox for multi-user PETROG', and modify the path to the location of the database and the value of the **NET DIR** setting, as described in steps (2) and (3) respectively.

2. Database Management Software (BDE)

There may be problems caused by the database management system used by PETROG being old software, with no updates available for the latest Windows operating systems. When running `BDEadmin.exe` (the database administration program) or `DBD32.EXE` (the database desktop, used for direct access to the database tables) a message may be displayed such as:

This program has known compatibility issues.

It is safe to run either of these programs; the message is really only saying that the software is old. However, to ensure that these programs run correctly, it is necessary to run them in Windows XP (SP3) Compatibility mode. To do this, right-click the file, and select Properties from the menu. Then select the Compatibility tab, and then tick the checkbox 'Run this program in compatibility mode for:' and select 'Windows XP (Service Pack 3)' from the drop-down list.

PETROG v3 uses new database administration software, DBExpress instead of BDE, but BDE can be successfully installed under both Vista and Windows 7 and PETROG runs without known problems.

If you see an error message:

Private directory is invalid or undefined. Using temporary directory instead.

and/or:

Could not initialize BDE

then the BDE has not installed correctly. This is most likely due to insufficient permissions and can usually be corrected by following the steps above to re-install. It may be necessary to run

C:\Program Files (x86)\Common Files\Borland Shared\BDE\bdeadmin.exe

Then proceed as above (see Configuring BDE/Paradox).

3. Moving to Windows 7

Specifically if you are moving an existing PETROG installation to Windows 7, as opposed to installing for the first time, and you wish to retain the contents of your database, then the procedure is as for any re-installation:

1. Backup the entire contents of `/PetrogData/` and all subfolders.
2. Install PETROG as described.
3. Copy the backed-up directories over the new ones created by the installation.

4. Virtual Store

If you are not an administrator and make changes to the BDE configuration in Windows 7 or Windows Vista, your changes are saved into a virtual store, to prevent system corruption for other users. However the PETROG family of applications do not use the virtual store and go directly to the original version. This will give the impression that the edits have not been saved.

The configuration changes are saved in the `IDAPI32.CFG` file. This is for changing configurations of items such as the location of `PDOXUSRS.NET` (either to prevent it using `C:\` which is not allowed in Vista \ Windows 7) or the 'PETROG' alias (the location of the PETROG database).

If you have the Virtual Store enabled, and you are not an administrator, when edits are saved they do not change the IDAPI32.CFG, but save the new version in the virtual store. The IDAPI32.CFG is located (by default) at c:\program files\Common Files\Borland Shared\BDE. If you check the IDAPI32.CFG and it does not have a new "date modified" time stamp then you should check the virtual store.

If you have files from this folder in the virtual store then you will need to look at the tool bar in Windows Explorer when looking at this file. If there are files in the virtual store then you will see a button named "Compatibility Files" - press this button and you will go to the folder where the newly edited IDAPI32.CFG file is kept, which can be identified by it's timestamp.

Simply move the file from the virtual store and overwrite the previous IDAPI32.CFG in the correct location.

Note that if you have a version in the virtual store then the BDEAdmin program, accessed either directly or through the Control Panel will lead you to believe that the edits have been saved in the correct location. The PETROG family of applications however do not look in the virtual store.

For further reading on the virtual store see this article on the Microsoft website - <http://msdn.microsoft.com/en-us/library/bb756960>

The problem is described in Scenario 2 in this article - <http://support.microsoft.com/kb/927387>